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(54) **HIGHLY SENSITIVE OXYGEN SENSOR FOR CELL CULTURE**

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(57) **ABSTRACT**

An oxygen sensor comprising an oxygen sensing compound and configured to substantially mitigate leaching of the oxygen sensing compound from the oxygen sensor to an outer surface thereof is provided. The oxygen sensor may comprise one or more layers. A first portion of the oxygen sensor is configured to be permeable to gas and comprises an oxygen sensing material. A second portion is disposed with or on the first portion and is configured to be permeable to gas and substantially impermeable to the oxygen sensing material.

